

## SYSTEM AND METHOD FOR DETECTING MOTION OF A BODY

## ABSTRACT OF THE DISCLOSURE

The present invention comprises a system and method for detecting an acceleration of a body and for evaluating movement of a body relative to an environment to detect falls and irregular motions of the body. According to an exemplary embodiment, the system comprises a sensor and a controller that comprises a processor. The sensor, which is associable with the body, comprises a plurality of acceleration measuring devices and is capable of repeatedly sensing accelerative phenomena of the body. The controller, which is associated with the sensor, is operable to process the sensed accelerative phenomena as a function of at least one accelerative event characteristic. The controller determines when the body experiences an acceleration that represents a particular type of motion. The controller also determines when a static acceleration vector reaches a value indicative of a fall. After a fall has occurred, the controller is capable of determining whether the controller was connected to a body during the fall or whether only the controller experienced the fall.